

Claims

1. Label comprising at least one electronic component (2), characterised in that the electronic component (2) is cast in synthetic material (1).

5 2. Label in accordance with Claim 1, characterised in that the label is self-adhesive.

10 3. Label in accordance with Claim 2, characterised in that the label is at least partially provided with adhesive (4) on at least one side.

15 4. Label in accordance with Claim 3, characterised in that the adhesive (4) is of low adherency.

20 5. Label in accordance with at least one of the Claims 2 to 4, characterised in that the side of the label coated with adhesive is provided with a protective foil.

6. Label in accordance with Claim 5, characterised in that the protective foil is siliconised.

a 7. Label in accordance with ~~at least one of the Claims 1 to 6~~, characterised in that the label comprises at least one attachment means.

30 8. Label in accordance with Claim 7, characterised in that the attachment means comprises at least one ribbon or at least one cord.

a 9. Label in accordance with ~~at least one of the Claims 1 to 8~~, characterised in that the label is in the form of a tag.

a35 10. Label in accordance with ~~at least one of the Claims 1 to~~

a 9, characterised in that the synthetic material (1) is transparent.

Claim 10
a 11. Label in accordance with ~~at least one of the Claims 1 to 9~~, characterised in that the synthetic material (1) is coloured.

sub 10
a 12. Label in accordance with ~~at least one of the Claims 1 to 11~~, characterised in that the synthetic material (1) comprises at least one polyurethane resin.

a 13. Label in accordance with Claim 12, characterised in that the polyurethane resin comprises the components, isocyanate and polyol.

a 14. Label in accordance with Claim 12 or 13, characterised in that the label is formed by flowing liquid polyurethane resin from a nozzle and by casting the electronic component (2) in the liquid polyurethane resin.

a 15. Label in accordance with Claim 14, characterised in that the flow and casting processes occur in the form of a drip process.

a 16. Label in accordance with Claim 12 or 13, characterised in that the label is formed by casting the electronic component (2) in the liquid polyurethane resin in a mould.

a 17. Label in accordance with Claim 16, characterised in that the mould has a smoothed surface.

a 18. Label in accordance with Claim 16 or 17, characterised in that the mould is polished.

a 19. Label in accordance with ~~at least one of the Claims 16~~

a 19. characterised in that the mould is lined with silicon.

a 20. Label in accordance with ~~at least one of the Claims 1 to 19~~, characterised in that the label comprises a support layer (3).

21. Label in accordance with Claim 20, characterised in that the support layer (3) is transparent.

10 22. Label in accordance with Claim 20, characterised in that the support layer (3) is coloured.

a 23. Label in accordance with ~~at least one of the Claims 20 to 22~~, characterised in that the support layer (3) is provided with at least one imprint.

a 24. Label in accordance with ~~at least one of the Claims 20 to 23~~, characterised in that the support layer (3) consists of synthetic material or paper.

a 25. Label in accordance with ~~at least one of the Claims 2 to 6 and in accordance with at least one of the Claims 20 to 24~~, characterised in that the support layer (3) is provided between the synthetic material (2) and the adhesive (4).

a 26. Label in accordance with ~~at least one of the Claims 1 to 25~~, characterised in that at least one electroluminescent device (5) is provided.

30 27. Label in accordance with Claim 26, characterised in that the electroluminescent device (5) is suppliable with energy via at least one antenna (6) and/or at least one battery.

a 28. Label in accordance with Claim 26 or 27, characterised

*a**a*

in that ~~the~~ colour and/or ~~the~~ shape of the illuminated region of the electroluminescent device (5) is controllable by means of a remote data transmission.

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Claim 28
29. Label in accordance with ~~at least one of the Claims 26 to 28~~, characterised in that the electroluminescent device (5) comprises at least one electroluminescent dyestuff.

a

30. Label in accordance with Claim 29, characterised in that the electroluminescent dyestuff is applied by printing.

*a**a*

Claim 30
31. Label in accordance with ~~at least one of the Claims 26 to 24~~ and in accordance with Claim 29 or 30, characterised in that the electroluminescent dyestuff is imprinted on the support layer (3).

*a**a**a*

Claim 1
32. Label in accordance with ~~at least one of the Claims 1 to 34~~, characterised in that the electronic component (2) is ~~an~~ ^{at least one of} antenna, a battery, a chip, a capacitor, a digital circuit element, a circuit, a printed oscillatory circuit, a solar cell, a coil, a power storage means and/or a transponder.

*a**a**a*

out 03
33. Label in accordance with at least one of the Claims 1 to 32, characterised in that the label has a rectangular shape.

*a**a*

Claim 1
34. Label in accordance with ~~at least one of the Claims 1 to 33~~, characterised in that the label is very thin.

*a**a*

Claim 1
35. Label in accordance with ~~at least one of the Claims 1 to 34~~, characterised in that the label is in the form of a security label for goods.

*a**a*

Claim 1
36. Label in accordance with ~~at least one of the Claims 1 to 34~~, characterised in that the label forms part of a toll deducting system.

Add 21